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0 1		Application No.	Applicant(s)	
		09/934,257	SCHNEIDER, GARY M.	
1	Notice of Allowability	Examiner	Art Unit	
		Andre Boyce	3623	
All claims be herewith (or NOTICE OF of the Office	The MAILING DATE of this communication apeing allowable, PROSECUTION ON THE MERITS previously mailed), a Notice of Allowance (PTOL-8 ALLOWABILITY IS NOT A GRANT OF PATENT or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 85) or other appropriate commu RIGHTS. This application is s 113 and MPEP 1308.	this application. If not inclu nication will be mailed in du ubject to withdrawal from iss	ded e course. THIS
1. X This	communication is responsive to Applicant's After Fi	inal amendment filed January 1	<u>0, 2005</u> .	
2. 🛭 The a	illowed claim(s) is/are <u>1-3,5,6,13,15-18,54-59 and i</u>	<u>61-64</u> .		
3. 🛭 The c	Irawings filed on <u>27 March 2002</u> are accepted by th	ne Examiner.		
* Cert Applicant I	owledgment is made of a claim for foreign priority All	ave been received. ave been received in Application documents have been received E" of this communication to file	n No I in this national stage applic	
5. A SUI	BSTITUTE OATH OR DECLARATION must be sub RMAL PATENT APPLICATION (PTO-152) which g	omitted. Note the attached EXA ives reason(s) why the oath or	MINER'S AMENDMENT or declaration is deficient.	NOTICE OF
(a)	RECTED DRAWINGS (as "replacement sheets") macluding changes required by the Notice of Draftsport () hereto or 2) to Paper No./Mail Date () hereto o	erson's Patent Drawing Review er's Amendment / Comment or R 1.84(c)) should be written on th	in the Office action of e drawings in the front (not the	he back) of
7. 🗍 DEPO	et. Replacement sheet(s) should be labeled as such in OSIT OF and/or INFORMATION about the deplaced and Examiner's comment regarding REQUIREMEN	posit of BIOLOGICAL MATE	RIAL must be submitted.	Note the
Attachment		.		TO 450\
	of References Cited (PTO-892) of Draftperson's Patent Drawing Review (PTO-948)		ormal Patent Application (P	10-152)
		Paper No./I	mmary (PTO-413), Mail Date	
	ation Disclosure Statements (PTO-1449 or PTO/SE · No./Mail Date 7/26/04	3/08), 7. ⊠ Examiner's A	Amendment/Comment	
4. 🔲 Examii	ner's Comment Regarding Requirement for Deposi	t 8. ⊠ Examiner's S	Statement of Reasons for Al	llowance
of Biolog	gical Material	9. 🗌 Other	1	

TARIO R. HAFIZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

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DETAILED ACTION

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Response to Amendment

1. The following is a response to Applicant's After Final amendment filed January 10, 2005. Claims 1, 55, 59, and 62 have been amended. Claims 4, 7-12, 14, 19-53, and 60 have been canceled. Claims 1-3, 5, 6, 13, 15-18, 54-59, and 61-64 are pending.

Examiner's Amendment

- 2. An Examiner's Amendment to the record appears below. Should changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. Authorization for this Examiner's Amendment was given in a telephone interview with Darin Bartholomew on February 2, 2005. The application has been amended as follows:

In the claims:

- 1. (Currently amended) In line 9, insert --, on a computer,-- after "analyzing said input information".
- 55. (Currently amended) In line 9, insert --, on a computer,-- after "analyzing said input information".

Reasons for Allowance

4. Claims 1-3, 5, 6, 13, 15-18, 54-59, and 61-64 are allowed.

5. The following is an Examiner's statement of reasons for allowance:

With respect to independent claims 1 and 59, none of the prior art of record, taken individually or in any combination, teach inter alia, maximizing the objective function to generate a corresponding first custom farm management plan based on said input information and said third-party financial information, the objective function indicative of a corresponding economic performance of the farm, wherein the objective function is expressed as the following representation: Max Z $\sum c_j y_j x_j - p_j x_j$, where Max Z represents a maximization function, c_j is the price/yield unit, y_j is the yield/acre for the crop identifier j, x_j represents a crop program variable for crop identifier j, and p_j is production costs/acre for crop identifier j.

With respect to independent claims 55 and 62, none of the prior art of record, taken individually or in any combination, teach inter alia, maximizing the objective function to generate a corresponding first custom farm management plan based on said input information and said third-party financial information, the objective function indicative of a corresponding economic performance of the farm, wherein the objective function is expressed as the following representation: Max $Z \Sigma [c_j y_j x_j - p_j x_j]$ * z_{in} , where Max Z represents a maximization function, c_j is the price/yield unit, y_j is the yield/acre for the crop identifier j, x_j represents a crop program variable for crop identifier j, p_j is production costs/acre for crop identifier j, and where z_{in} is a binary

variable with a value of 0 or 1, representing the presence of absence of a planted crop i in field n.

The prior art references most closely resembling Applicant's claimed invention are Ell et al (US 2003/0036852), Remley et al (US 2002/0023052), and McCauley (USPN 6,058,351).

Ell et al disclose creating crop input requirement maps for site-specific farming, wherein the crop requirement maps contain a prescription of crop inputs for each section of a field. The user selects or inputs mathematical equations and a field attribute map containing various agronomic data is accessed by the system. The equations and field attribute maps are then combined to create a prescription of crop inputs for each section of a field. However, Ell et al does not disclose maximizing the objective function to generate a corresponding first custom farm management plan based on said input information and said third-party financial information, the objective function indicative of a corresponding economic performance of the farm, wherein the objective function is expressed as the following representation: Max Z Σ $C_iy_ix_i - p_ix_i$, or Max Z Σ $[C_iy_ix_i - p_ix_i] * z_i$.

Remley et al disclose transacting exchanges of agricultural products such as crops with reduced risk to the producer, wherein the producer is provided with a guaranteed revenue adjustment that offers both yield and price protection in the event yield or market conditions fall below expectations. However, Remley et al does not disclose maximizing the objective function to generate a corresponding first custom farm management plan based on said input information and said third-party

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financial information, the objective function indicative of a corresponding economic performance of the farm, wherein the objective function is expressed as the following representation: Max Z Σ $c_j y_j x_j - p_j x_j$, or Max Z Σ $[c_j y_j x_j - p_j x_j] * z_{in}$.

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McCauley discloses determining management zones in a field for precision farming, including obtaining site-specific farming data, providing the data to a self-organizing network, obtaining classification outputs, and classifying locations in the field management zones based upon the site-specific data. McCauley also discloses input data referred to as a vector X at specific position P, where X(P) represents the field characteristic data at position P of the field. However, McCauley does not disclose maximizing the objective function to generate a corresponding first custom farm management plan based on said input information and said third-party financial information, the objective function indicative of a corresponding economic performance of the farm, wherein the objective function is expressed as the following representation: Max Z Σ $c_i y_i x_i - p_i x_j$, or Max Z Σ $[c_i y_i x_i - p_i x_j] * z_{in}$.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre Boyce whose telephone number is (703) 305-1867. The examiner can normally be reached on 9:30-6pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (703) 305-9643. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

adb

February 4, 2005

TARIQ R. HAFIZ SUPERVISORY PATENT EXAMINER

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